INTERNATIONAL SEARCH REPORT

International application No. PCT/IB 2004/000191

A. CLASSIFICATION OF SUBJECT MATTER

A63B 57/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) A63B57/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Epodoc, wpi, paj

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No. 1,2,7,11-15	
Α	US 4925190 A (Learned) 15 May 1990 (15.05.1990) fig. 5a-5d; column 2, lines 45-66; column 4, line 55 - column 6, line 9.		
Α	US 6223829 B1 (Wiens) 1 May 2001 (01.05.2001) fig. 5 - 14; column 5, line 1 - column 6, line 9.	1,2,3,7,11-15	
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Α	WO 1996/022131 A1 (Mitch International Ltd.A.S.) 25 July 1996 (25.07.1996) fig. 1 - 7; page 3, lines 18 - page 4, line 4.	1,4,7,12-15	

X.	Further	documents	are listed	in the c	ontinuation	of Box C.

See patent family annex.

* Special categories of cited documents:

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- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search 26 July 2004 (26.07.2004)

Date of mailing of the international search report

1 September 2004 (01.09.2004)

Name and mailing address of the ISA/AT

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INTERNATIONAL SEARCH REPORT

International application No. PCT/IB 2004/000191

C (Continuat	ion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passa	ges Relevant to claim No
Α	US 2003/0032505 A1 (Christensen) 13 February 2003 (13.02.2003) fig. 1 - 3, 9 and 10; column 4, lines 1 - 20.	1,3,7,11-15

INTERNATIONAL SEARCH REPORT Information on patent family members

International application No. PCT/IB 2004/000191

Patent document cited in search report			Publication date	Patent family member(s)			Publication date
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บร	A	4925190	1990-05-15			none	·
US	В	6223829	2001-05-01	CA	A	2255237	1999-06-08
				บร	В	6502646	2003-01-07
				US	A	2002007955	2002-01-24
WO	A	19960221	· · · · · · · · · · · · · · · · · · ·			none	
		31					